VGN-Z890GNE

VAIO® Z Series Notebook PC

Uncompromising ultra-portable design

POWERFUL MOBILE PERFORMANCE

Enjoy the powerful performance of an Intel® Core™ 2 Duo P9700 processor (2.80GHz[1]) with Intel® Centrino® 2 processor technology and 6GB of pre-installed system memory.

The VAIO® Z notebook comes pre-installed with Genuine Microsoft® Windows® 7 Professional[14] / XP Professional downgrade

Uncompromising elegance weaved into a 3.30 lb[5] (with standard battery) go-anywhere package.

Enjoy a 13.1"[4] (1600x900) LED backlit widescreen display, with a scratch resistant LCD, for a brighter, crisper, tougher display.

For even faster read / write times and greater durability, enjoy a 128GB[2] Solid State Drive.

WIRELESS FREEDOM

Your friends, your news, and your entertainment when you need it. The VAIO® Z Series lets you browse the web in more places with Verizon Wireless Mobile Broadband Built-In, America's largest and most reliable 3G network[15].

Built-in Wireless-N technology offers a boost in wireless connection speed and range[3].

Extend the reach of your Z notebook with Stereo A2DP Bluetooth® technology[17] that's ideal for connecting to other Bluetooth-enabled peripherals.

Built-in real-time GPS unit lets you navigate even the most unfamiliar places with ease. No internet connection required[23].

ENDLESS FEATURES

An HDMI™ output[20] delivers video and audio to external sources via a single cable so you can enjoy HD entertainment on your compatible big screen TV without a myriad of extra cables (HDMI™ cable sold separately).

A built-in biometric fingerprint scanner makes authentication and secure access quick and easy – you only need your fingerprint.

A hybrid graphics system lets you set graphics performance on the fly – no reboot necessary.

Stay connected to colleagues and family while on the road with real-time video conferencing[3] using the MOTION EYE® camera and microphone with face-tracking technology.

ENVIRONMENTALLY ENGINEERED FEATURES

Energy-efficient 28 watt Intel® Centrino® 2 processor technology offers all the performance at lower power consumption.

By using a mercury-free backlit LED display, the VAIO® Z notebook keeps one less chemical out of both your home and the landfills.

Built tough for business, the VAIO® Z notebook offers the portability of a 3.30 lbs[5] (with standard capacity battery) form factor with the performance of a larger computer. Encased in durable carbon fiber and featuring a scratch-resistant (1600x900) display and GPS functionality, the Z notebook is designed to help withstand the rigors of the road.

Look for Intel Inside

Windows 7

NVIDIA GeForce

HDMI

Bluetooth

WiFi CERTIFIED

RoHS COMPLIANT

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VAIO® Z Series Notebook PC

Specifications

General

Computer Type: Notebook

Type of Use: Ultra-portable

Action Buttons: S1, S2, Wireless / Bluetooth® on / off, Performace Select

Pointing Device: Electro-static touch pad

Security: Biometric Fingerprint Sensor
Trusted Platform Module (TPM) TCG Ver.1.2 compliant

Hardware

Keyboard: QWERTY, 82 keys with 2.5mm stroke and 19.05mm pitch

Camera: Built-in MOTION EYE® camera and microphone with face-tracking technology

Processor

Type: Intel® Core™ 2 Duo Processor P9700

Speed: 2.80GHz[1]

Front Side Bus Speed: 1066MHz

L2 Cache: 6MB

Technology: Intel® Centrino® 2 Processor Technology

Memory

Installed: 6GB PC3-8500 (4GBx1) + (2GBx1)

Maximum: 8GB

Type/Speed: DDR3/1066MHz

Optical Drive

CD Support: Read / Write (CD/-R/-RW)

DVD Support: Read / Write (DVD±R/±RW/±R DL/-RAM)

Expansion Slots

Multimedia Card Reader: One Memory Stick PRO™ (STD / Duo) media slot with MagicGate® functionality
One ExpressCard® /34 media slot
One Secure Digital (SD memory card) media slot

Solid State Drive

Capacity: 128GB

Technology: Serial ATA

Audio

Sound System: Intel® High Definition Audio

Display

Screen Size: 13.1"[4]

Resolution: 1600 x 900

Back Light Technology: LED

Graphics

Processor: NVIDIA® GeForce® 9300M GS GPU with Total Available Graphics Memory of 3037MB (max.) and Mobile Intel® Graphics Media Accelerator 4500MHD with Intel® Clear Video Technology with Total Available Graphics Memory: 1695MB (max.)[11]

Video RAM: 256MB of dedicated video RAM

Technology: Hybrid Graphics System[18]

Chipset: Mobile Intel® GM45 Express Chipset

Max. External Resolution via VGA: 2048x1536

Max. External Display Resolution via HDMI™ : 1920x1080

Inputs and Outputs

Modem Jack: 1

Microphone Input: 1

Port Replicator Connector(s): 1 (Bottom)

USB Port(s): 2 (2.0 compliant)

VGA Output(s): 1

DC-In: 1

i.LINK® Connection: 1 (4pin) i.LINK® connector (IEEE 1394)[7]

Ethernet Connection (s): 1

HDMI™ Output(s): 1[20]

Power

Battery Type: Standard Capacity Lithium-ion Battery

Estimated Battery Life: Up to 5.5 hours[8] Standard Capacity Battery

Up to 8.0 hours[8] Large Capacity Battery

Power Requirements: 121W + 10%

Start-up Times

Average Boot Time: 60 sec[21]

Average Resume Time from Suspend: 2 sec[21]

First Boot Time: 5 min[22]

Wireless/Networking

Ethernet Protocol: 10Base-T/100Base-TX/1000Base-T (Gigabit)

Ethernet Speed: Fast Ethernet (RJ-45)

Wi-Fi: Intel® WiFi Link 5100AGN (802.11a/b/g/n)[3]

Bluetooth® Technology: Integrated Stereo A2DP Bluetooth (2.1 + EDR) [17]

Modem Type: Integrated V.92/V.90 Modem (RJ-11)

Mobile Broadband: Verizon Wireless Mobile Broadband Built-In[15]

GPS: Yes[23]

Software

Operating System: Microsoft® Windows® 7 Professional 64bit[14] with XP Professional downgrade disc

Supplied Software: Microsoft® Works SE 9.0 w/ 60-Day Trial Version of Microsoft® Office Small Business 2007[13]
Microsoft® Streets and Trips[23]

The VAIO® Software Experience: VAIO Care™ - System diagnostics and maintenance

VAIO® Multimedia Suite: VAIO® Movie Story - Simple Movie Creation
VAIO® Media plus - Multimedia Streaming Software
*Please access VAIO® Help and Support from your PC for a complete list of software applications and trials.

Anti-Virus Software: Norton Internet Security™ 2009 30-Day Trial Offer[16]

Service and Warranty Information

Telephone Support: 1 year toll-free technical assistance available 24/7[10] at 888-476-6972

Online and Email Support: Available at http://www.esupport.sony.com/EN/VAIO

Onsite/In-Home Service: 1 year limited warranty with Onsite/In-Home Service[19]. See actual warranty for details.

International Service: 1 year international service plan. Registration required. See www.sony.com/IRSP for details.

Dimensions

Weight: 3.30 lbs[5] (with standard capacity battery)

Measurements: 12.4"(W) x 1.0-1.3"(H) x 8.3"(D)[5,6]

Supplied Accessories

Standard Capacity Lithium-ion battery

AC Adapter

Power Cord

Optional Accessories

Stick AC Adapter (VGP-AC19V30)

Port Replicator (VGP-PRZ1)

Additional Standard Capacity Battery (VGP-BPS12)

Large Capacity Battery (VGP-BPL12)

VAIO® Protection Case (VGP-CKZ1)

Neoprene Case (VGP-AMC3)

Bluetooth® Remote Mouse[17] (VGP-BMS80)

Bluetooth® Aluminum Slider Mouse[17] (VGP-BMS10/B)

Bluetooth® Keyboard[17] (VGP-BKB1)

Color: Dot Matrix

UPC Code: 027242784376

1. GHz denotes microprocessor internal clock speed; other factors may affect application performance. CPU speed will be reduced under certain operating conditions.
2. GB means one billion bytes when referring to hard drive capacity. Accessible capacity may vary. A portion of hard disk space is reserved as a recovery partition.
3. Requires 802.11n compatible access point. Some functionality may require Internet services.
4. Viewable area measured diagonally.
5. Non-metric weights and measures are approximate and may vary.
6. Measured at the narrowest point
7. i.LINK is a trademark of Sony used only to designate that a product contains an IEEE 1394 connector. All products with an i.LINK connector may not communicate with each other.
8. Actual battery life may vary based on product settings, usage patterns and environmental conditions.
9. See actual limited warranty for details. For a copy of Sony's warranty, please visit www.sony.com/pcsupport, call toll-free 888-476-6972 (888-4SONYPC) or write to Sony Electronics, 12451 Gateway Boulevard, Fort Myers, FL 33913.
10. For certain third party software applications, Sony provides first level phone support. Additional telephone support may be available from the applicable 3rd party vendor. Availability and schedule for any such support is determined by the aplicable software vendor.
11. Total Available Graphics Memory refers to the new Windows 7® classification of graphics memory, which varies depending on the operating condition, version of device driver and system memory size.
12. Broadband Internet service required along with third party services which may require a subscription or other service fee.
13. 60-Day Trial Version of Microsoft® Office 2007 - This trial software will work only for 60 days after you first use it. You will not be able to use the software if you dont activate it as described the first time you use the software. You can activate the software by Internet: Internet service charges may apply. If you want to keep using the software after the 60-day trial period, you must convert to the perpetual version. You can convert online by following the conversion instgructions presented during setup and paying the required fees.
14. Compatibility and performance in a 64 bit environment may vary. Check with the manufacturer of your software or accessory to ensure you have the latest updates.
15. Broadband Service sold separately. Service activation fee of $35 may apply. Mobile Broadband is available to more than 262 million people in 258 major metro areas in the U.S. Offers and coverage, varying by service, not available everywhere. Network details & coverage maps at vzw.com. ©2009 Verizon Wireless. All company names, trademarks, logos, and copyrights not property of Verizon Wireless are property of their respective owners. All rights reserved
16. Norton Internet Security™ 2009 30-day subscription is pre-installed on your Sony VAIO PC. You need to activate the software for the product to work. After your 30-days are finished, buy Norton Internet Security to continue to be protected from viruses, hackers and identify theft.
17. Interoperability and compatibility among Bluetooth® devices vary.
18. Windows 7® is required for feature functionality. Rebooting is necessary on pre-installed and downgraded Windows® XP Professional models.
19. When available, Sony will provide Onsite/In-Home Service in fulfillment of its limited warranty obligations. Any such services are subject to the terms and conditions of the limited warranty. See actual Limited Warranty for details. Onsite/In-Home Service will be provided via third-party technician to be dispatched as needed following phone-based troubleshooting. Some repairs may be accomplished with self repair kits. Onsite/In-Home Service may not be available in all locations.
20. Requires high definition-capable display with HDMI™ connector. Image quality will vary.
21. Based on original factory image and will vary with product configuration changes and additional software added to the hard drive.
22. Excluding end user interaction
23. GPS is available in the US only

Computer Interface: For this product, there are a multitude of varying software packages and add-on hardware options. This product is not manufactured to work with any specific software, and Sony does not and cannot make any warranty or representation with respect to the performance of this product with any particular software packages and/or non-Sony add-on hardware options except those mentioned here. Sony hereby disclaims any representations or warranties that this product is compatible with any combination of non-Sony products you may choose to connect to it. While Sony representatives or Sony authorized dealers may be able to assist you and may make recommendations, they are NOT authorized to vary or waive this disclaimer. Purchasers must determine for themselves the suitability and compatibility of the hardware and software in each and every particular instance. Software titles pre-installed on the Sony computer are subject to change without notice. Preinstalled software may not be identical to retail versions or have all documentation. Features and specifications are subject to change without notice.
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